



Patent

Docket No.: P02082US1A

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Wang et al..

Serial No.: 10/791,491
Filed: March 2, 2004

Group Art Unit: 1773
Examiner: Hoa T. Le

For: **NANO-SIZED POLYMER METAL
COMPOSITES**

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

1. Pursuant to 37 C.F.R. 1.97(b) this Statement is being filed (one must be checked):

(a) Within 3 months of the filing date or date of entry into the National Stage.

(b) Before the mailing date of a first Office Action on the merits.
If this Statement is not filed before the mailing date of a first Office Action on the merits, the required certification is given below or, in the absence thereof, the Office is authorized to charge the required fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 06-0925 for consideration of this Statement.

(c) After the period set forth in 37 C.F.R. 1.97(b) but before the mailing date of either a final action or a notice of allowance.

(1) The required certification is given below, or

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 on:

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Date

Signed

Hoa T. Le

- (2) Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(p) for consideration of this Statement, or
- (3) Charge the fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 06-0925.

(d) After the mailing date of either a final action or a notice of allowance, but before payment of the issue fee. Petition hereby is made for consideration of this Statement and the required certification indicated below.

(1) Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(i)(1), or

(2) Charge the fee set forth in 37 C.F.R. 1.17(i)(1) to Deposit Account No. 06-0925.

2. Certification (if applicable)

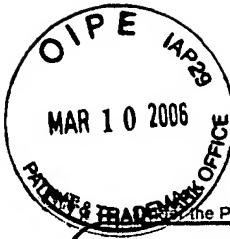
(b) The undersigned hereby certifies that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of the information disclosure statement.

March 6, 2004
Date

Respectfully submitted by:


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Registration No. 47,839

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Enclosures



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PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 6

Complete if Known

Application Number	10/791,491
Filing Date	March 2, 2004
First Named Inventor	Wang
Art Unit	1773
Examiner Name	Le, Hoa T
Attorney Docket Number	P02082US1A

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US-	3,972,963	8/3/1976	Schwab et al.	
	US-	4,233,409	11/11/1980	Bulkley	
	US-	4,247,434	1/27/1981	Vanderhoff et al.	
	US-	4,463,129	7/31/1984	Shinada et al.	
	US-	4,543,403	9/24/1985	Isayama et al.	
	US-	4,788,254	11/29/1988	Kawakubo et al.	
	US-	4,829,130	5/9/1989	Licchelli et al.	
	US-	4,837,274	6/6/1989	Kawakubo et al.	
	US-	4,837,401	6/6/1989	Hirose et al.	
	US-	4,870,144	9/26/1989	Noda et al.	
	US-	4,904,730	2/27/1990	Moore et al.	
	US-	4,904,732	2/27/1990	Iwahara et al.	
	US-	4,906,695	3/6/1990	Blizzard et al.	
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	US-	5,219,945	6/15/1993	Dicker et al.	
	US-	5,237,015	8/17/1993	Urban	

FOREIGN PATENT DOCUMENTS

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		WO 01/87999A2	11/22/2000	Faust et al.		
		WO 02/100936	12/19/2002	Exxon Chem.		
		WO 02/31002A1	4/18/2002	UAB Res. Found.		
		WO 91/04992	4/18/1991	Exxon Chem.		

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Sheet 2 of 6

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First Named Inventor	Wang
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	US-	5,247,021	9/21/1993	Fujisawa et al.	
	US-	5,262,502	11/16/1993	Fujisawa et al.	
	US-	5,290,873	3/1/1994	Noda et al.	
	US-	5,331,035	7/19/1994	Hall	
	US-	5,336,712	8/9/1994	Austgen, Jr. et al.	
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	US-	5,527,870	6/18/1996	Maeda et al.	
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	US-	5,614,579	3/25/1997	Roggeman et al.	
	US-	5,627,252	5/6/1997	De La Croi Habimana	
	US-	5,688,856	11/18/1997	Austgen, Jr. et al.	
	US-	5,728,791	3/17/1998	Tamai et al.	
	US-	5,733,975	3/31/1998	Aoyama et al.	
	US-	5,739,267	4/14/1998	Fujisawa et al.	
	US-	5,777,037	7/7/1998	Yamanaka et al.	
	US-	5,811,501	9/22/1998	Chiba et al.	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO2004/058874	7/15/2004	Bridgestone Corp.		
		EP 0 265 142 A2	4/27/1988	Rohm and Haas		
		EP 0 590 491 A2	4/6/1994	Bridgestone		
		EP 1 099 728 A1	5/16/2001	Chiba et al.		

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	US-	5,834,563	11/10/1998	Kimura et al.	
	US-	5,849,847	12/15/1998	Quirk	
	US-	5,855,972	1/5/1999	Kaeding	
	US-	5,883,173	3/16/1999	Eispass et al.	
	US-	6,011,116	1/4/2000	Aoyama et al.	
	US-	6,020,446	2/1/2000	Okamoto et al.	
	US-	6,025,416	2/15/2000	Proebster et al.	
	US-	6,025,445	2/15/2000	Chiba et al.	
	US-	6,060,559	5/9/2000	Feng et al.	
	US-	6,087,016	7/11/2000	Feeley et al.	
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	US-	6,106,953	8/22/2000	Zimmermann et al.	
	US-	6,117,932	9/12/2000	Hasegawa et al.	
	US-	6,121,379	9/19/2000	Yamanaka et al.	
	US-	6,147,151	11/14/2000	Fukumoto et al.	
	US-	6,268,451	7/31/2001	Faust et al.	
	US-	6,277,304	8/21/2001	Wei et al.	
	US-	6,348,546	2/19/2002	Hiir et al.	
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		EP 1 134 251 A1	9/19/2001	Okamoto et al.		
		JP 08-199062	8/6/1996	Mitsubishi Chem.		

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		Number-Kind Code ² (if known)			
	US- 6,598,645		7/29/2003	Larson	
	US- 6,750,297		6/15/2004	Yeu et al.	
	US- 6,759,464		7/6/2004	Ajbani et al.	
	US- 6,835,781		12/28/2004	Kondou et al.	
	US- 6,872,785		3/29/2005	Wang et al.	
	US- 6,875,818		4/5/2005	Wang	
	US- 2002/0095008		7/18/2002	Heirnrich et al.	
	US- 2002/0144401		10/10/2002	Nogueroles Vines et al.	
	US- 2003/0004250		1/2/2003	Ajbani et al.	
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	US- 2004/0059057		3/25/2004	Swisher et al.	
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	US- 2004/0198917		10/7/2004	Castner	
	US- 2005/0101743		5/12/2005	Stacy et al.	
	US- 2005/0203248		9/15/2005	Zheng et al.	
	US- 6,706,813		3/16/2004	Chiba et al.	
	US- 6,060,549		5/9/2000	Li et al.	
	US-				

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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
		Star Polymers by Immobilizing Functional Block Copolymers, by Koji Ishizu, Tokyo Institute of Technology, Meguro-ku, Tokyo, Japan, Star and Hyperbranched Polymers, 1999, ISBN 0-8247-1986-7			
		Formation of Worm-like Micelles from a Polystyrene-Polybutadiene-Polystyrene Block Copolymer in Ethyl Acetate, Canham et al., J.C.S. Faraday I, 1980, 76, 1857-1867			
		Anomalous Behaviour of Solutions of Styrene-Butadiene Block Copolymers in Some Solvents, Tuzar et al., Makromol. Chem. 178, 22743-2746 (1977)			
		Association of Block Copolymers in Selective Solvents, 1 Measurements on Hydrogenated Poly(styrene-isoprene) in Decane and in trans-Decalin, Mandema et al., Makromol. Chem. 180, 1521-1538 (1979)			
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		Greenwod, N.N.; Earnshaw, A., Chemistry of the Elements, pp 1126-1127, Pergaroen Press, New York 1984			
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where p	T ²
		Rheology of Nanocomposites Based on Layered Silicates and Polyamide-12, B. Hoffman et al., Colloid Polm. Sci. 278:629-636 (2000)	
		Quaternary Ammonium Compounds, Encyclopedia of Chem Tech., 4th Ed. Vol. 20, 1996, Wiley & Sons, pp. 739-767	
		R.P. Quirk and S.C. Galvan, Macromolecules, 34, 1192-1197 (2001)	
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		S. Mossmer, J.P. Spatz, M.Moller, T. Aberle, J. Schmidt, W. Burchard, Macromol. 33, 4791-4798 (2000)	
		Functionalized Core Shell Polymers Prepared by Microemulsion Polymerization, E. Mendizabal, J.E. Pugl, A. Aguiar, S. Gonzalez-Villegas, 477/Antec '97/1733-1737	
		Ultrahydrophobic and Ultrayophobic Surfaces: Some Comments and Examples, Wei Chen et al., The ACS Journal of Surfaces and Colloids, May 11, 1999, Vol. 15, No. 10, pp 3395-3399, Polymer Science and Engineering Dept., Univ. of MA, Amherst, MA 01003	
		Super-Repellent Composite Fluoropolymer Surfaces, S.R. Coulson, I. Woodward, J.P.S. Badyal, The Journal of Physical Chemistry B, Vol. 104, No. 37, Sept. 21, 2000, pp. 8836-8840, Dept. of Chemistry, Science Laboratories, Durham University, Durham, DH1 3LE, England, U.K.	
		Transformation of a Simple Plastic into a Superhydrophobic Surface, H. Yildirim Erbil et al., Science Vol. 299, Feb. 28, 2003, pp. 1377-1380	

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